

Abstract

The invention relates to a fuel injection system for internal combustion engines, having a fuel injection nozzle (2), which can be supplied with fuel by a high-pressure fuel source (1), which fuel injection nozzle has a movable nozzle piston (3) for opening and closing injection openings (6), an injection nozzle high-pressure chamber (21), and an injection nozzle control chamber (20), and a pressure boosting device (7) is connected between the fuel injection nozzle (2) and the high-pressure fuel source (1) and has a movable pressure booster piston (8), a pressure booster work chamber (11), and a pressure booster high-pressure chamber (9), in which a filling connection (10) which that is open for filling the pressure booster high-pressure chamber (9) when the fuel injection nozzle (2) is closed is itself closed when the fuel injection nozzle (2) is open.

(Fig. 1)